

Summary of Water Year 2007 Sand Supply Below Glen Canyon Dam

by

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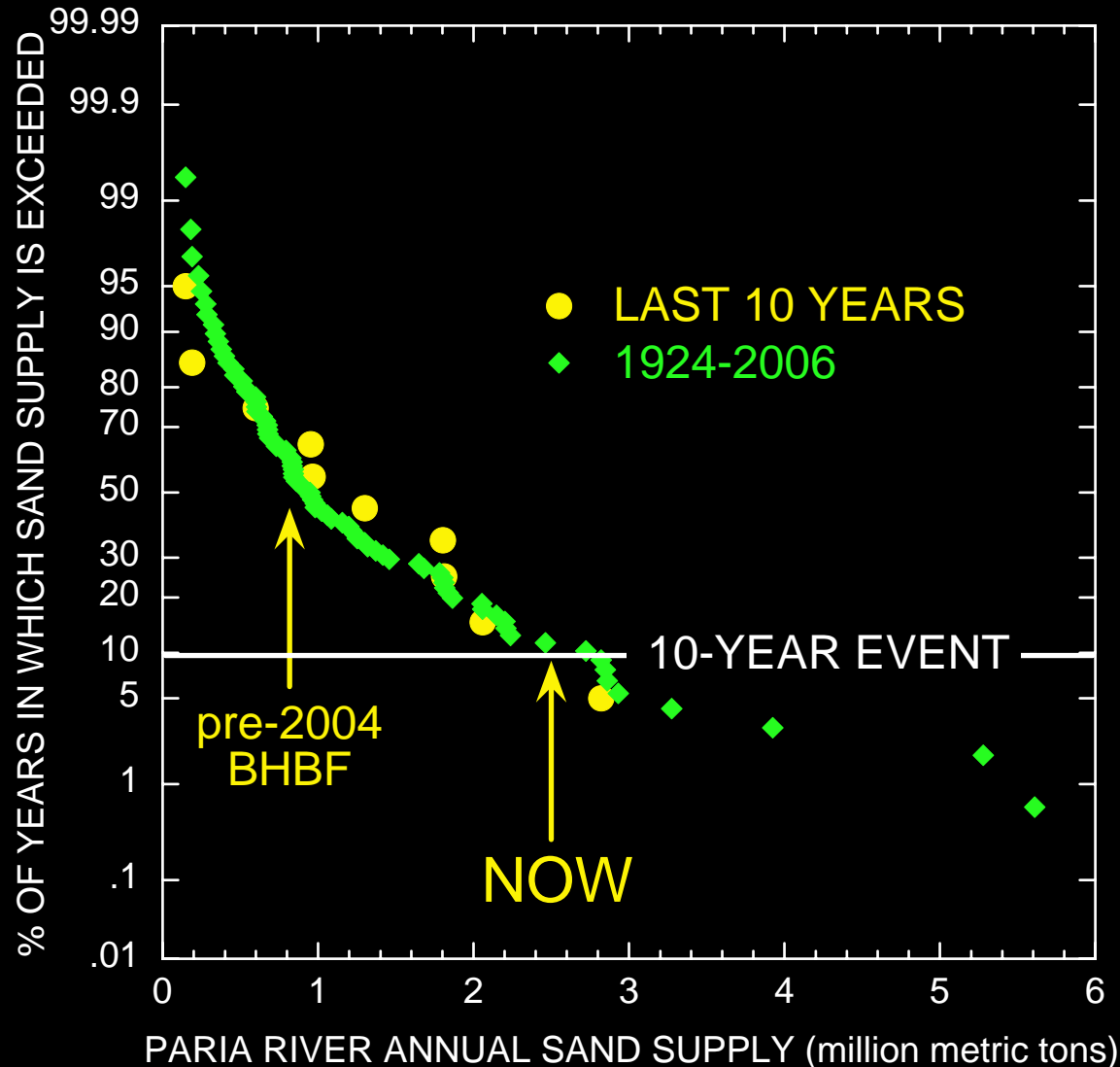
Technical Workgroup Meeting

October 2, 2007

Sand Supplied to Marble and Grand Canyons: Water Year 2007

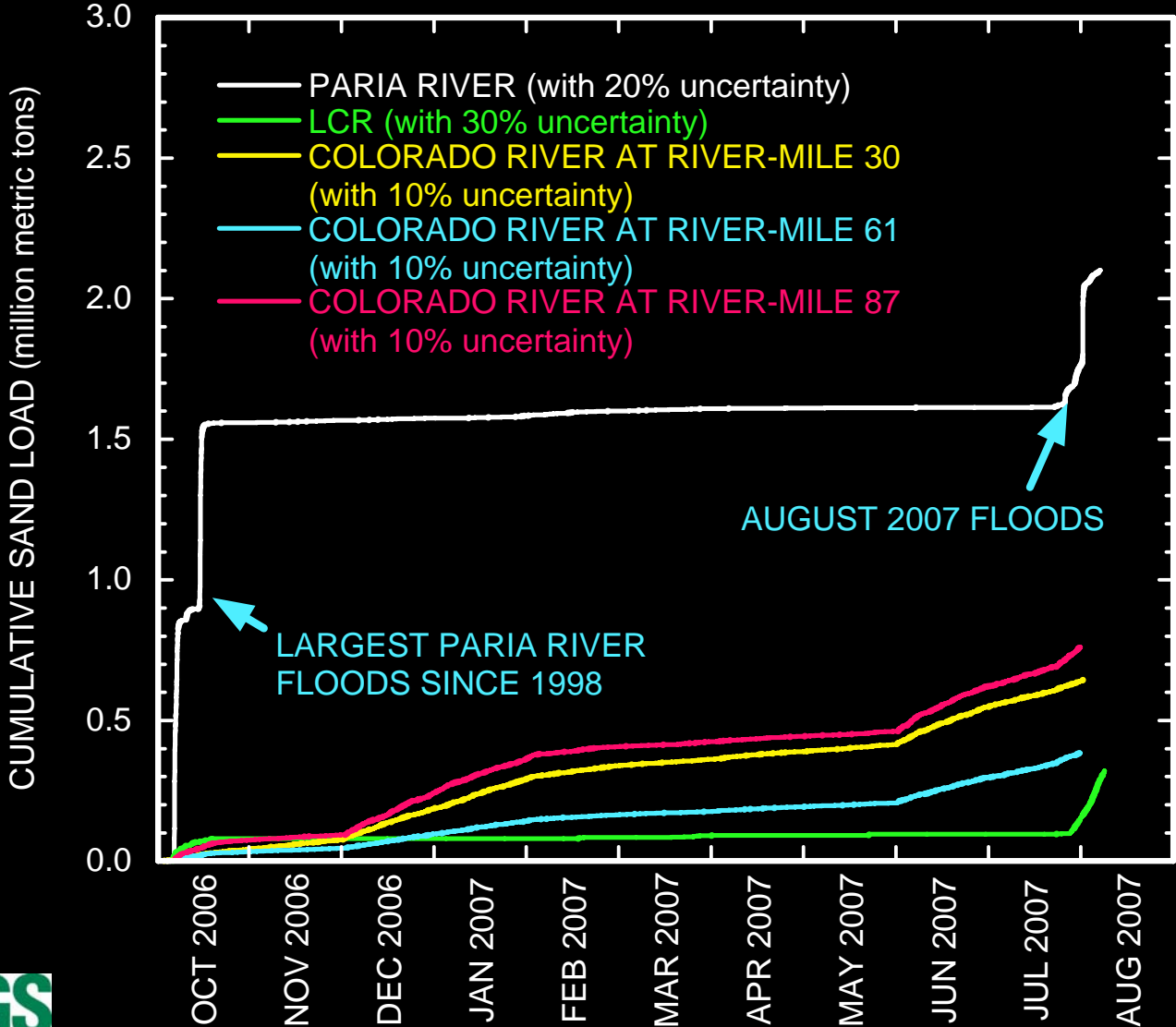
- During WY 2007 - Paria River Supplied About 2.5 Million Metric Tons of Sand to Mainstem Below GCD
- Paria Total is Nearly 2X the Average Annual Sand Production and more than 2.5X the Historical Mean
- WY2007 Sand Load is About 3X the Amount that Triggered the 2004 BHBF Test
- Frame of Reference - 1 Million Metric Tons = a 40-Story Building the Size of an NFL Football Field.

OVER 3X PARIA SAND SUPPLY
OVER 3X LCR SAND SUPPLY
RELATIVE TO PRIOR TO 2004 BHBF TEST



Preliminary Data, Subject to Review and Revision; **Note: does not include additional 300,000 to 500,000 metric tons of sand supplied by the Paria River in late August through September**

**CUMULATIVE SAND TRANSPORT
OCTOBER 2006 - AUGUST 2007**



Sand Supply Summary

- Relative to October 1, 2006, There is between 1.4 and 2.6 million Metric Tons of New Sand in Upper Marble Canyon (river-miles 1-30)
- Relative to October 1, 2006, There is between 160,000 and 360,000 Metric Tons of New Sand in Lower Marble Canyon (river-miles 30-61)

Sand Supply Summary

- Little Colorado River – Added Another ~300,000 metric tons of Sand to Eastern Grand Canyon During Summer 2007
- Sand Supply in Marble and Eastern Grand Canyon is Greater Than it Has Been Since at Least 1998
- Presents Unique Opportunity for BHBF Testing Under High Level of Sand Enrichment Conditions

Water Year 2008 BHBF TEST?

- Sand Supply is Significantly Enriched: Beyond Conditions Previously Tested
- Decision is Needed by early November to Meet Logistical and NEPA Compliance Requirements
- Technical Workgroup Recommendation on BHBF is Expected on October 3, 2007

Sandbar Response from 2004 Test – Upper Marble Canyon

Questions/Comments

Backwater Habitat

Sedimentologists